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25X1A July 10, 1969

BI-MONTHLY STATUS REPORT

25X1A [redacted] 2200901-BMSR-1

25X1A Contract [redacted]

I. Introduction and Activity Summary

This program was activated on April 21, 1969. To date, three trips to the customer's facility have been made for the purpose of information collection and detailed problem definition.

Trips were made on the dates and for the purposes shown below:

April 22, 1969: This trip was concerned with definition of the customer's needs. Handbook subjects were definitized and general objectives were discussed.

25X1A May 13, 1969: Discussions were held with [redacted] in respect to APSD function and to areas in which quantitative analysis can be beneficial to evaluation of materials.

June 10, 1969: Briefings were conducted by IEG with particular emphasis on photointerpretation problems. Stellar reduction, modeling and tonal scales were also discussed.

Trip reports covering each trip have been submitted.

On June 4, 1969, a memorandum entitled "Product Evaluation" was submitted. This report contains a program plan and schedule. Subsequent discussion with APSD personnel have more clearly defined the handbook as a compendium of required evaluation steps which comprise a complete system of evaluation.

II. Discussion

The important lesson gathered in the IEG briefing related to the specific nature of PI response to image quality and type. The practical restriction of availability of PI time for evaluation activity probably limits the scope of such activity to that level of data which can be collected informally by APSD. There are several areas wherein more quantitative data would be of assistance. For example, visual inspection cannot always differentiate between results due to various combinations of illumination conditions, environmental conditions and exposure. This situation might be improved by the development of methods for specifying the tonal rendition, density range, etc., particularly from the standpoint of the inherent correctibility of the product in the duplicating process.

Other areas in which disucssion of quantification has been carried on include augmentation of sensitometric data supplied by the processing facility, dupe tonal achievement, suitability of the DN as a printing medium, mensuration accuracy, smear slit data, data block performance, and stellar quality. In the latter area, the relationship between stellar magnitude and achieved density may be a useful measure of photographic recording quality.

A start was made in defining the entire evaluation sequence carried out at all locations and by various groups. Timing data is being collected, as is a formulation of the relative content of various published reports.

III. Future Plans

Approximately two trips to the customer's facility will be made during the next reporting period. The primary activity to be pursued will be the comparison and evaluation of various

reports issued during the evaluation sequence. This information will form the basis for the definition of an evaluation system diagram showing existing methods and objectives. Based on this data, a second such diagram will be developed which shows the areas which require further development.

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